
High speed injection

CARBOMESO User's Manual





Caution

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- The operator should be well acquainted with operation method of the unit in advance. The compressor should be replaced with another if the unit is operated more than an hour, or it should be started again after 20 minutes.
- The operator should be very careful lest the used solution be infiltrated into the unit during operation, and all the residual solution be cleared from the gun after use.
- The program of the unit should be checked if it works normally or not.
- The air connectors and power connectors should be checked before operation.
- Any problem of the unit should be corrected in accordance with the prescribed method. The unit should be used under confirmation of normal operation after correction.
- 10cc injectors are used. Those with 5cc or 2cc can be used with the he certain support tool.
- Pay special attention to the needle of the injector when you are installir the injector to it's gun.
- The connection of power cable(220V), air connector and power conr should be confirmed in advance before switching on the power.

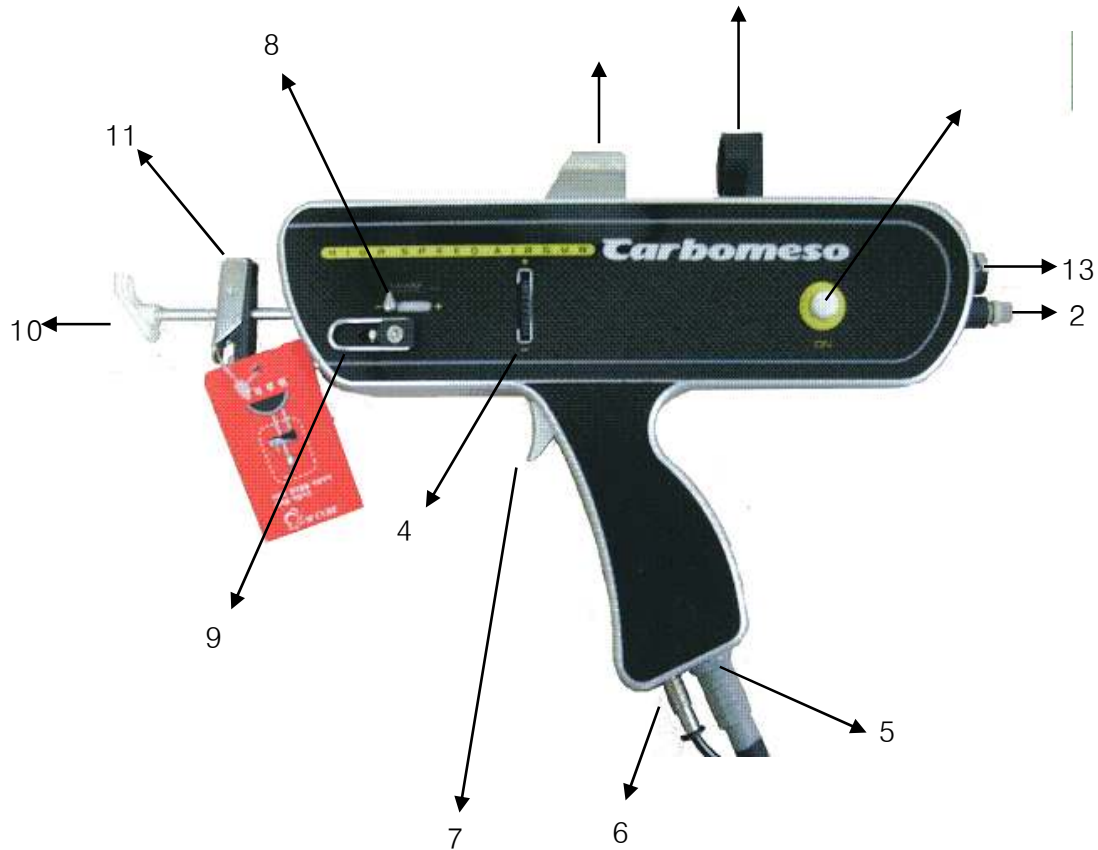


Component Parts

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The following components of the CARBOMESO unit should be confirmed on delivery

Gun	Container box
	
Air cable	Power Cord
	
Guide	Sylinge
	
Needle	C-SET
	
User's Manual	
	



1. Injector support: helps the injector to be installed
2. Pressure regulator: regulates the power to help install the injector
3. Pressure regulator s/w
4. Mode: mode selector on the gun
5. POWER: Power on/off
6. Display Window: displays change of mode
7. Guide Control Lever: activates guide
8. Power Connector
9. Air Connector
10. S/w: s/w for starting operation
11. Guide scale: shows change of guide scale from 0 to 10mm
12. Clip: fixes connection part of the catheter
13. Guide: contacts skin and controls the depth of the needle during operation
14. Guide support: supports the catheter beside the injector needle
15. Injector support



How to use

High speed injection

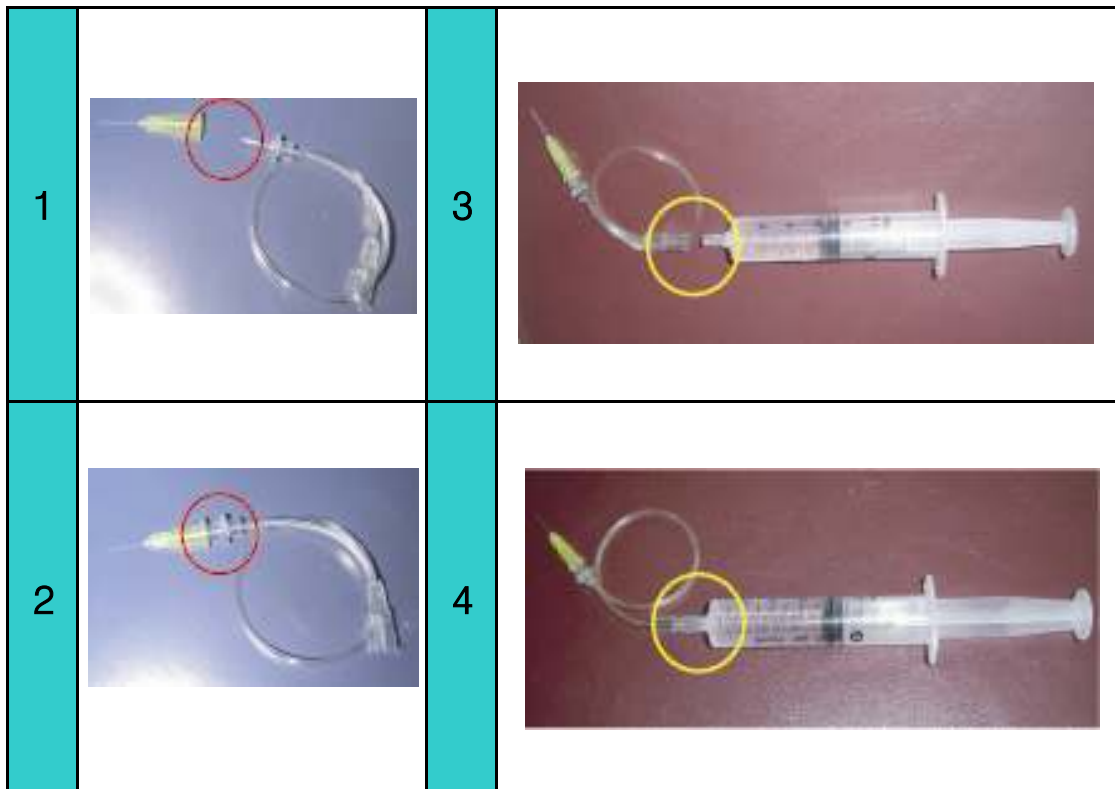
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Power connection and starting operation

1. Connect this 'Air tube' with gun.
2. Connect this 'Air tube' with compressor.
3. Connect this 'Power Code' with compressor.
4. Switch on the compressor.



Preparation of the injector
Attach electric catheter to 10cc injector.



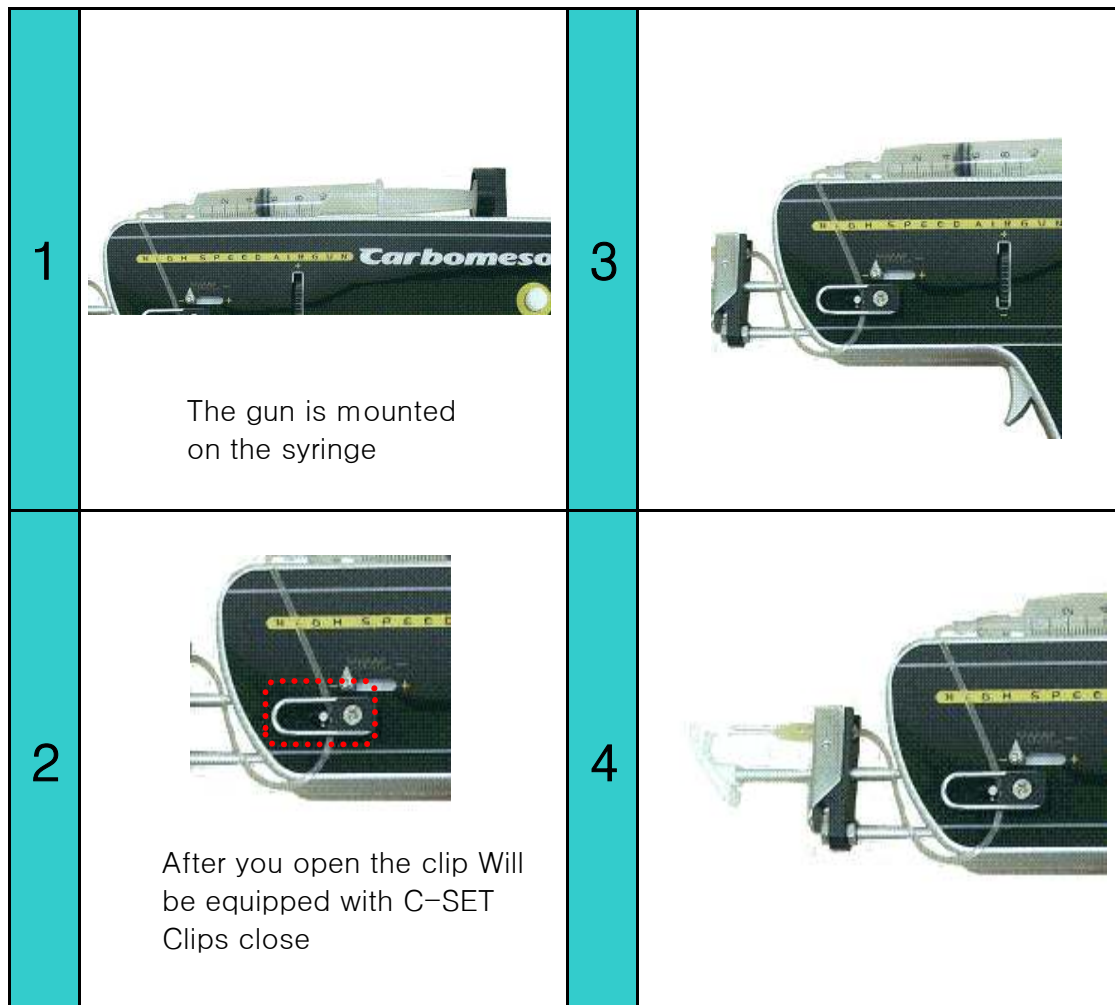


How to use

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To attach the injector

- Insert the injector to the gun support.
- Push the catheter into the guide support.





To operate the gun

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Filling the injection liquid

Switch on the pressure control s/w as shown in the picture.

Now, the liquid is injected to the injector when the pressure regulator is turned.

Turn the pressure regulator counter-clockwise first, and switch on the pressure control s/w and decide on the liquid injection by turning it clockwise.

Liquid injection is stopped by pushing the pressure control s/w off.

Liquid is injected again if the s/w is toggled again.





To operate the gun

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Operating the guide

As shown in the picture, the guide is adjusted by the guide adjustment lever between 0~10.

It increases in number when turned to +direction and decreases when turned to - direction.

As the number indicates the depth of the injector needle, it gets inserted 4mm deeper if the guide is positioned at 4mm.





Usage by Mode

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Mode	Usage	Display
CONTINUE	The needle keeps being inserted while the s/w (trigger) is pressed.	C
AUTO	The needle keeps piston work while the s/w is pressed.	1~5
LIQUID INJECTION	Injection of liquid is controled by adjusting s/w.	



Displayed value

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Continue	C	Continue
Auto	1	66 Cycles/Minute
	2	156 Cycles/Minute
	3	192 Cycles/Minute
	4	288 Cycles/Minute
	5	420 Cycles/Minute



Specification

a. GUN

1) dimension: 335(w) x 200(l) x 28(h) mm

2) weight: 558g

b. BOX

1) dimension: 205.4(w) x 300(l) x 250(h) mm

2) weight: 10.5kg

c. Package

1) dimension: 130(w) x 375(l) x 325(h)

2) weight: 100g



Notice for the users

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- The users should be familiar with the users' manual before trying to operate this unit.
- Please ask for A/S if any, to service centers authorized from our company.
- No one other than the technician authorized from our company should try
- to disassemble to fix the unit.



Warranty

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All the products of our company are warranted as below according to the consumers compensation law by item.

- Any problem of the unit is to be informed to our A/S center or to the supplier for service.
- This unit is warranted for a period of one year from the date of purchase. If the date of purchase is uncertain, the one year warranty period for the unit starts on the date 6 months from the date of manufacture.

Model : Carbomeso

Date of Purchase: S/N

Purchased from:

Service free of charge

Any defects in efficiency or performance of the unit can be serviced free of charge only once while the warranty period of one year is valid.



Warranty

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Charged service

1. Service request in case of no malfunction in the unit.

The users should read the service manual completely so that they could service the unit themselves to avoid unnecessary service charge. Inevitable service charges are specified in a separate provision.

2. Trouble due to mistake of the user

Inappropriate handling, repair or modification

Servicing or repairing by unauthorized person other than our technician or service center

Not using genuine parts from the manufacturer

Damages or problems due to falling

Using other consumables or options not specified by Mcure

3. Others

Problems out of natural calamity including fire, flooding etc.
Dying of consumables' shelf life(fuse and others)

This warranty is valid only in Korea and should be kept well because it is not reissued.